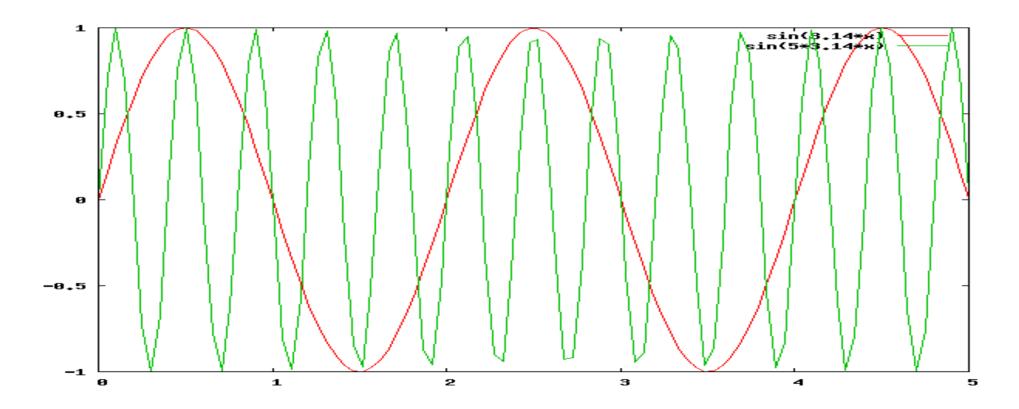
BPM calibration

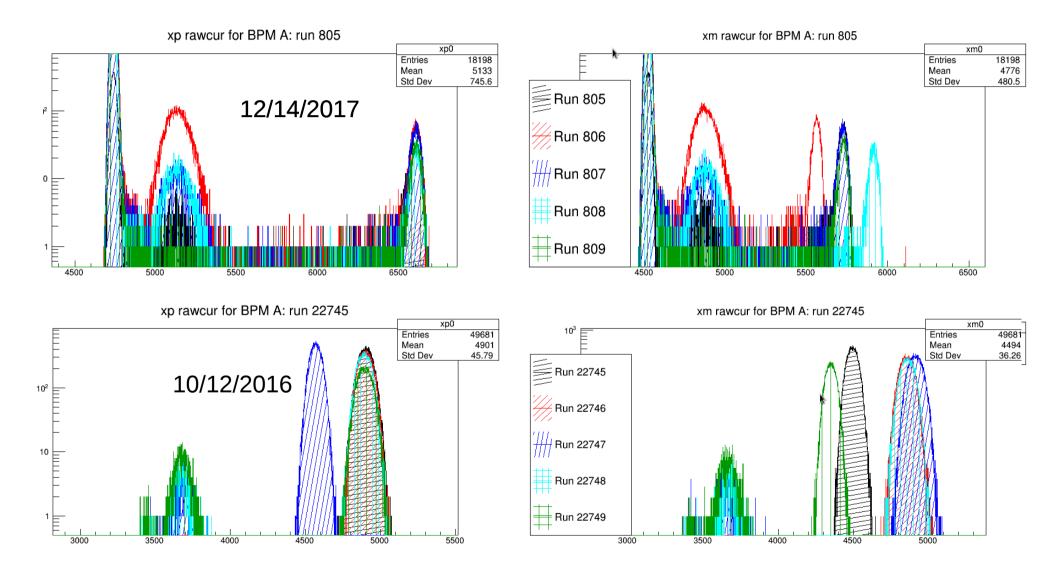
- Pedestals
 - Left arm 758
 - Fadcs
 - Fbus adcs
 - Right arm 90558
 - Fadcs
 - Fbus adcs
- Harp scans for a bulleye's scan
 - https://wiki.jlab.org/tegwiki/index.php/BPM_Calibration

Issues:

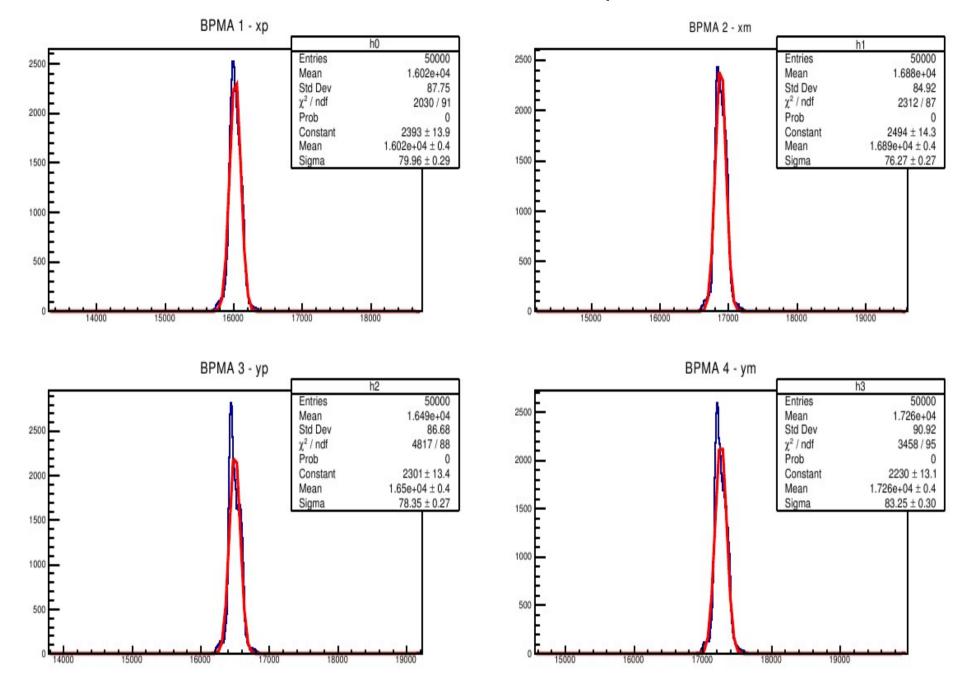
- Harp scan was completed with tune beam
 - Due to the differences in frequency of tune beam and our electronics, we receive multiple signals.
 - I image the timing to be something similar to this



Issues:



- Left arm 758 fadcs pedestals

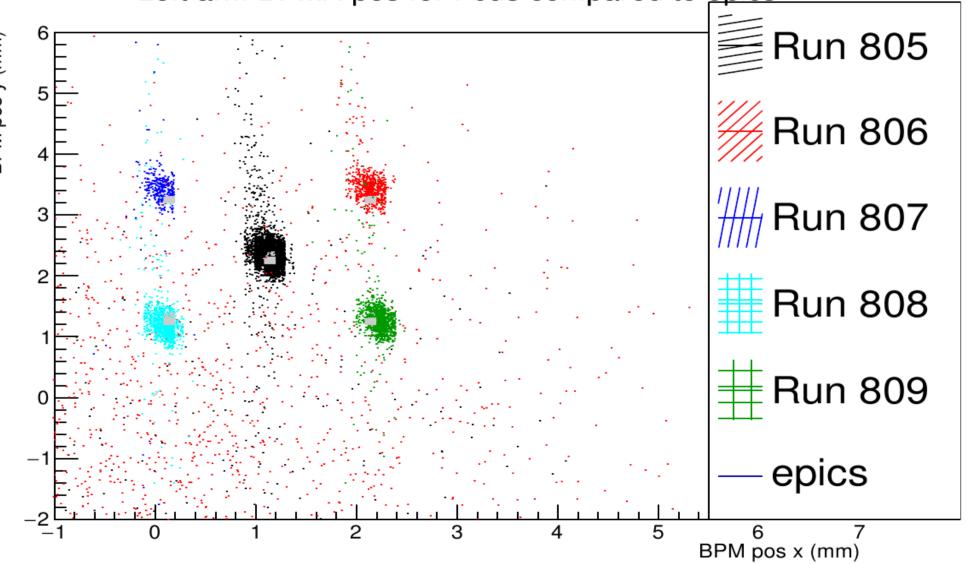


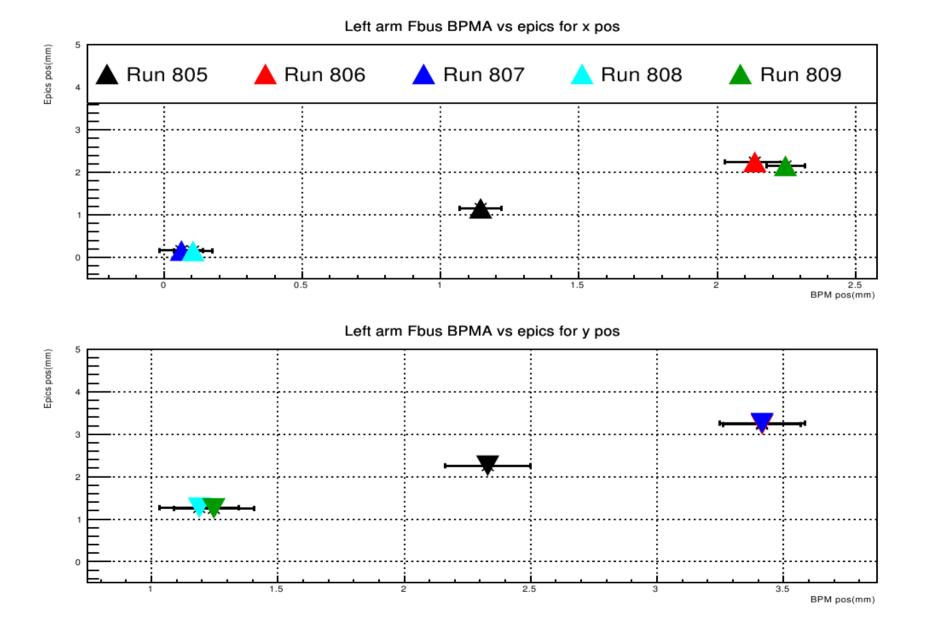
Calibration results

• 2D Plot of the x and y positions reconstructed from the Bpm signals with a Grey box of the values we expect.

• A graph of the fitted x and y position compared to their epics reference.

Left arm BPMA pos for Fbus compared to epics

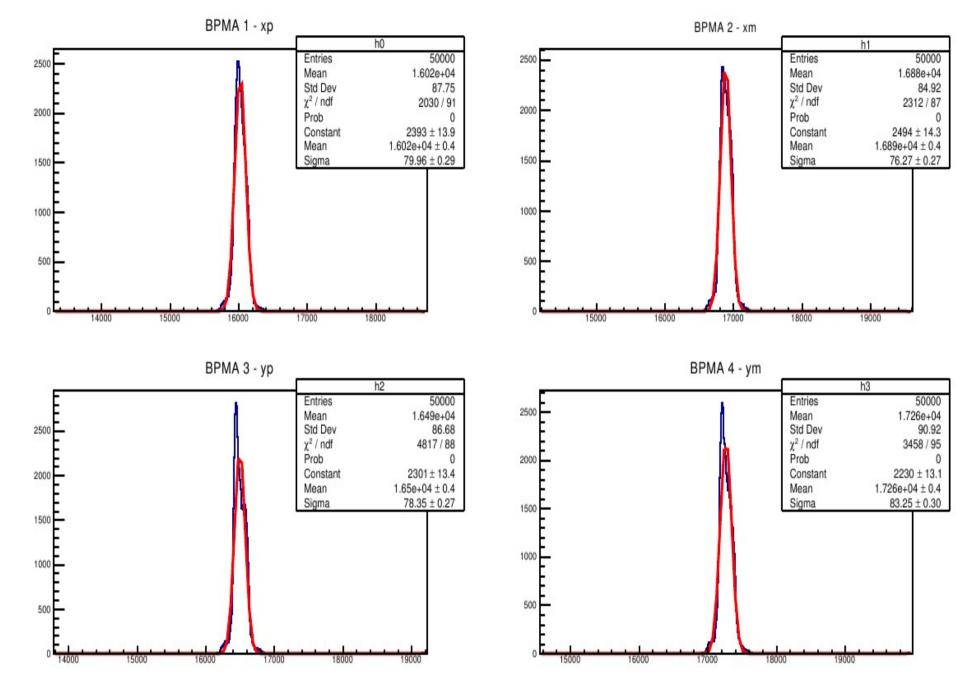




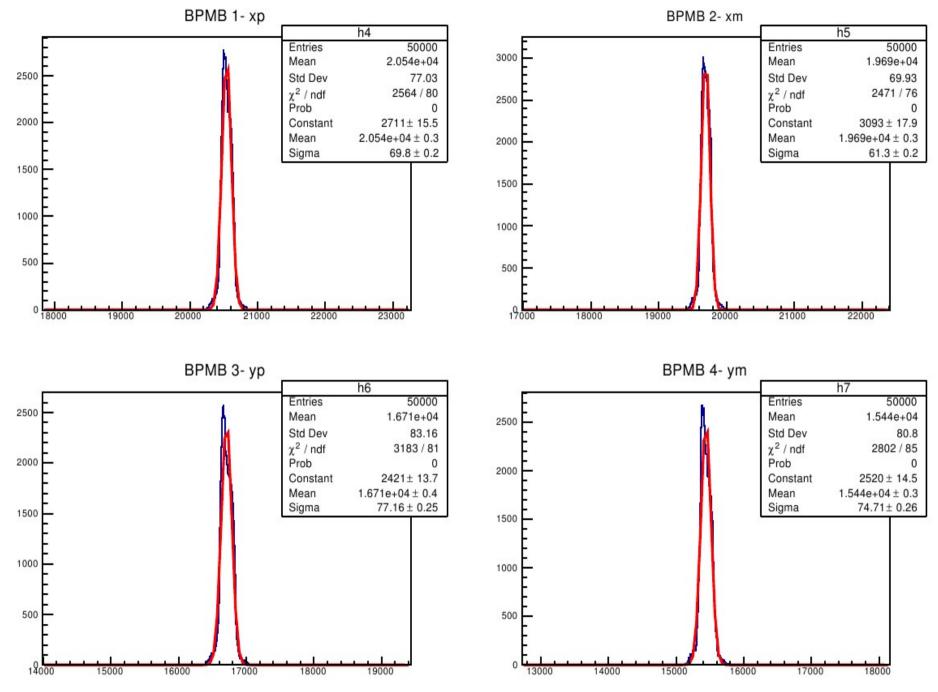
Extra data

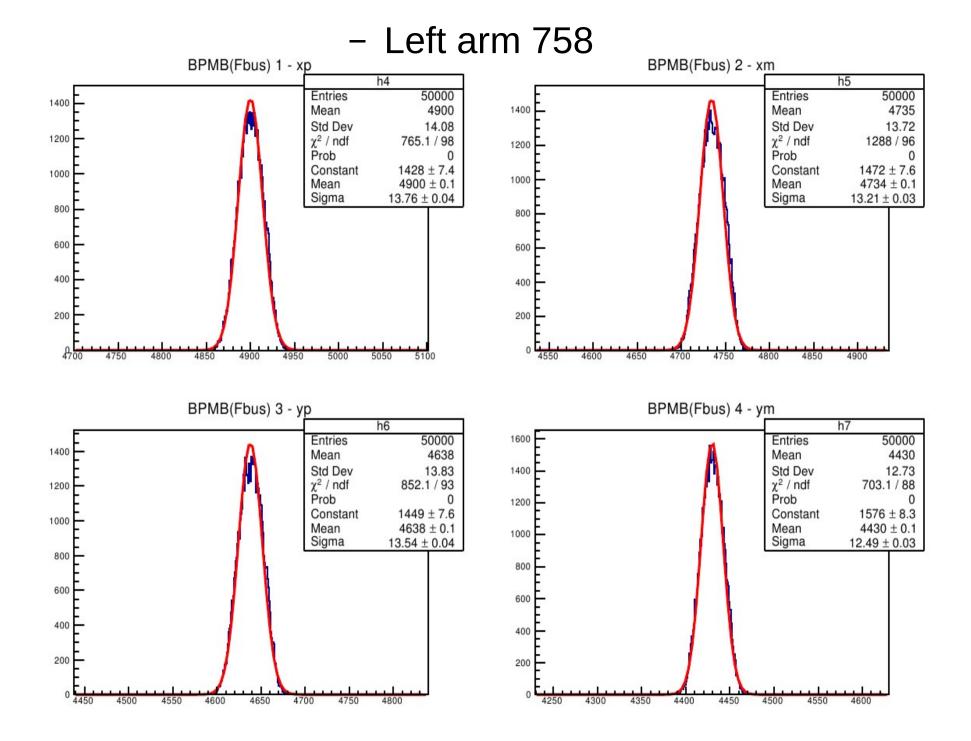
- The following slides contain:
 - the pedestal fits, for both arms and both types of adcs.
 - Calibration results from the BPMs
 - A 2d comparison of the BPMs to epics variables
 - A 1d comparison of both axes.

- Left arm 758 fadcs

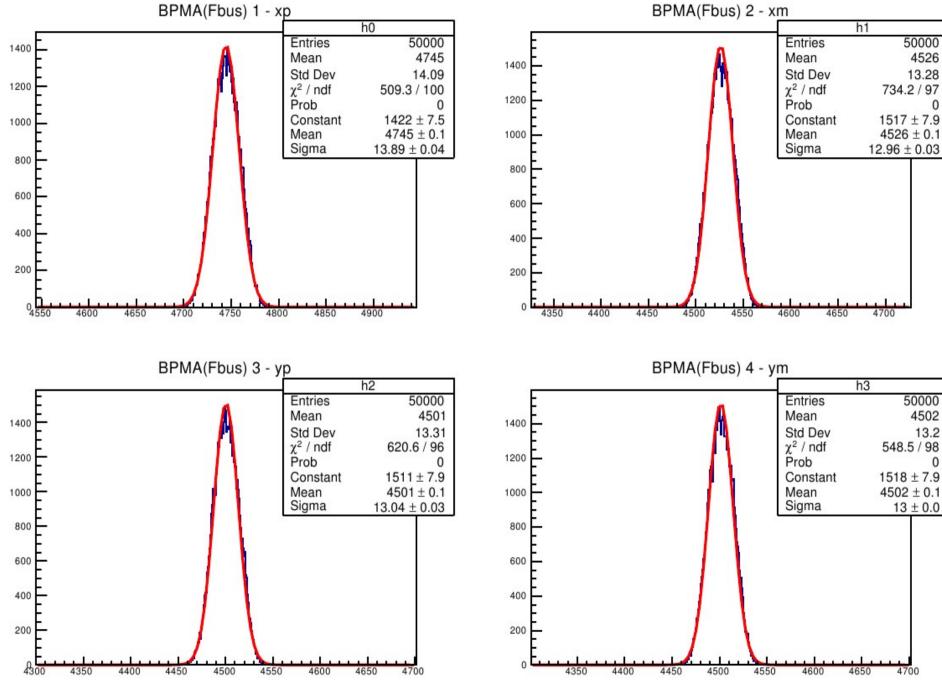


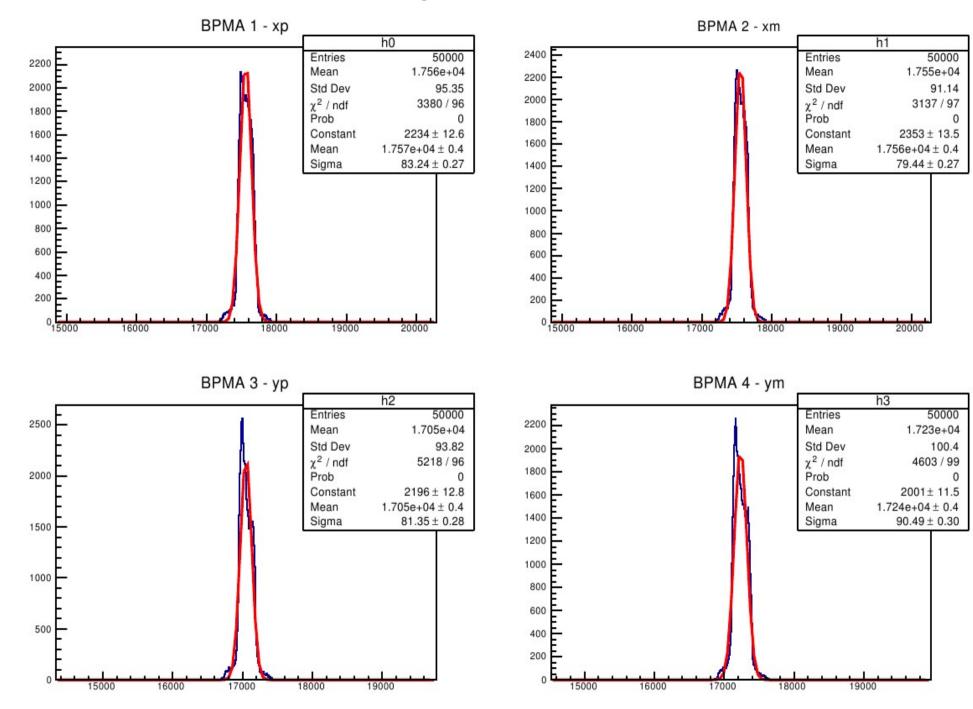
- Left arm 758 fadcs

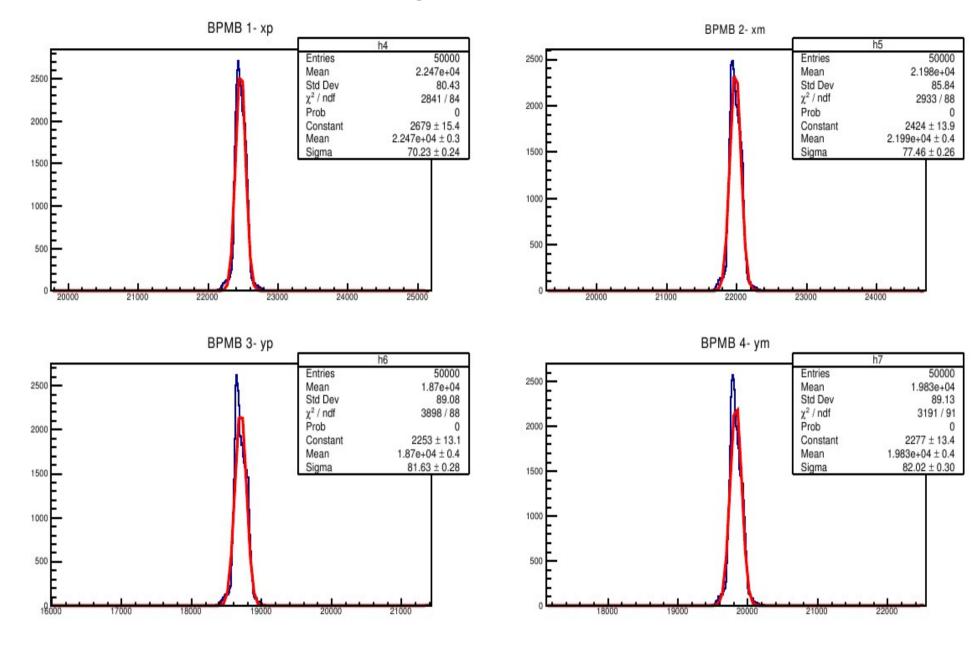


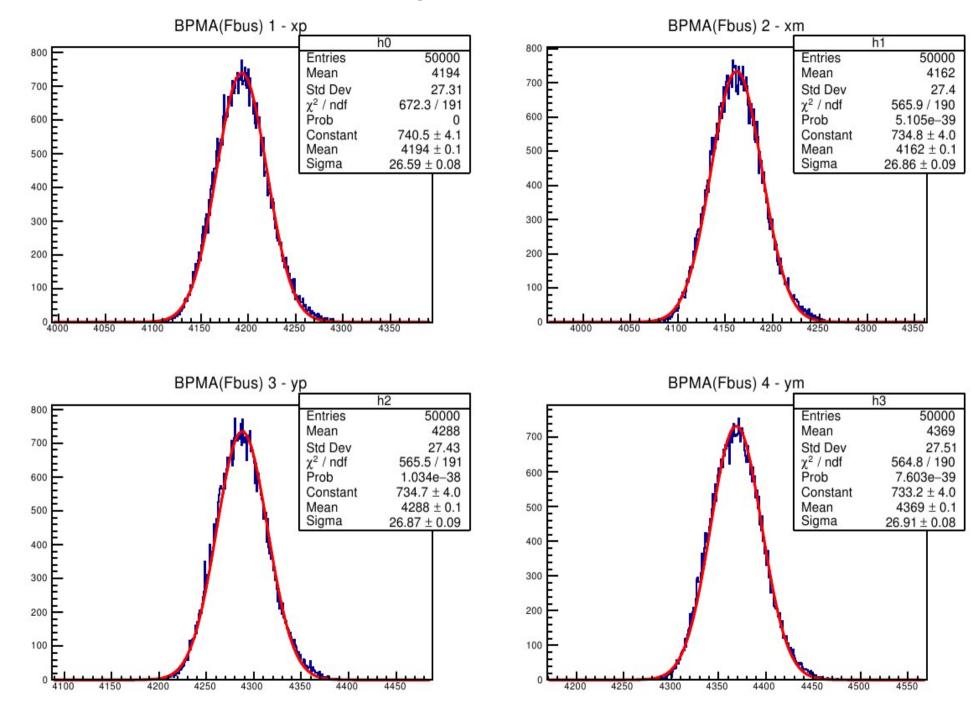


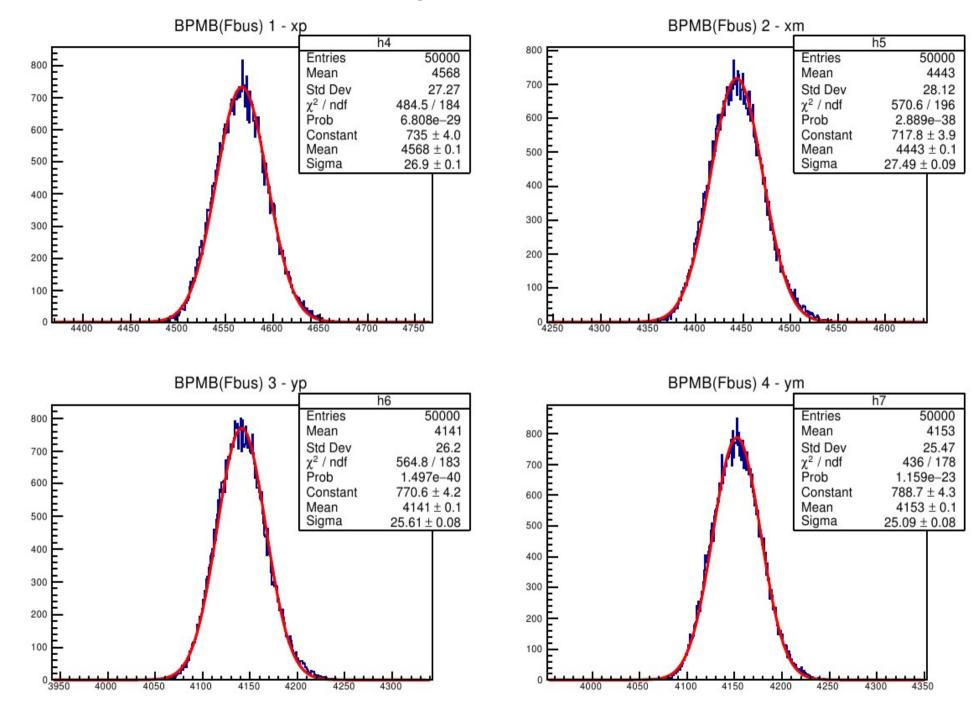
- Left arm 758







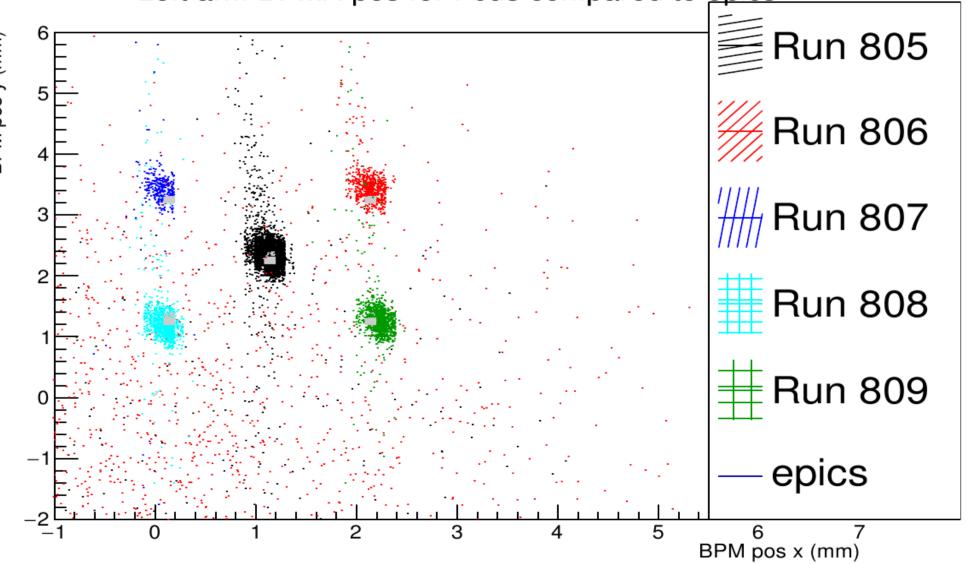


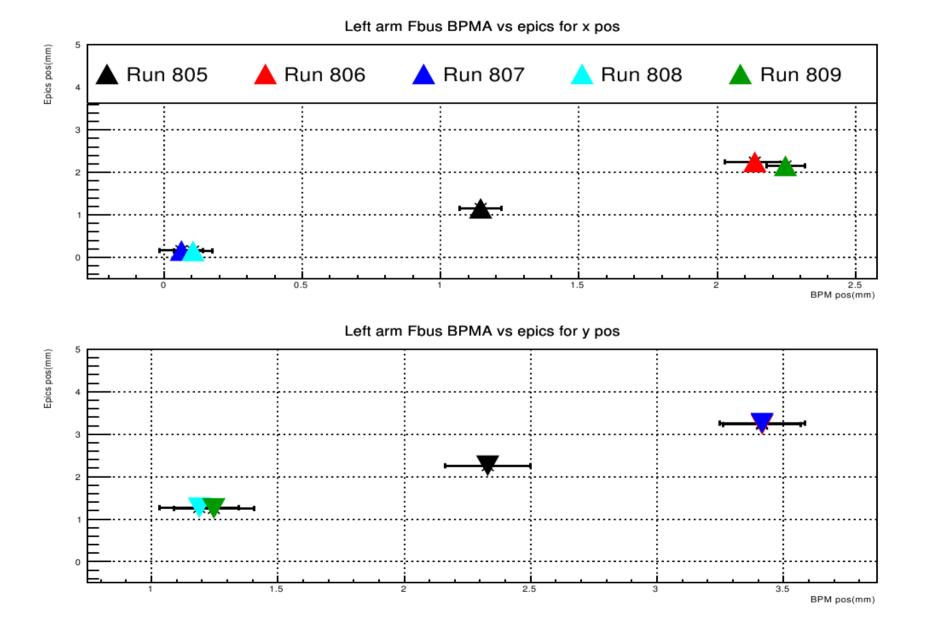


Calibration results

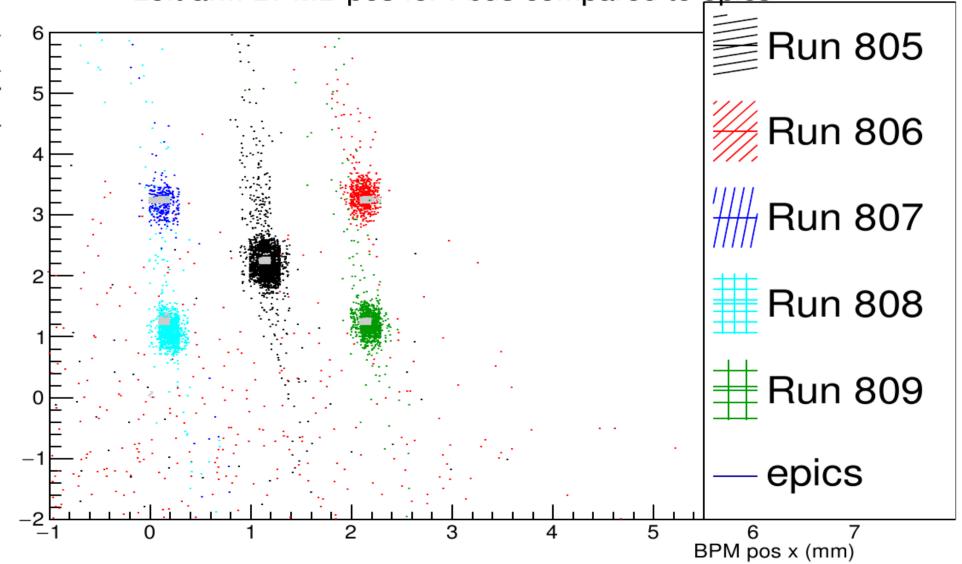
- 2D Plot of the x and y positions reconstructed from the Bpm signals with a Grey box of the values we expect.
- A graph of the fitted x and y position compared to their epics reference.
- This is completed for each BPM of each arm for both fadc and Fast bus.

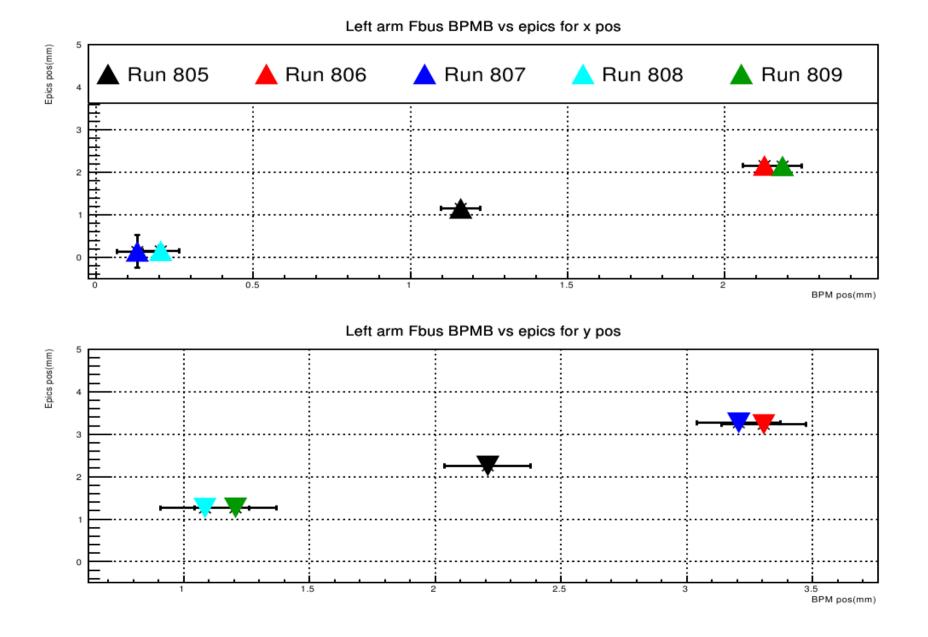
Left arm BPMA pos for Fbus compared to epics



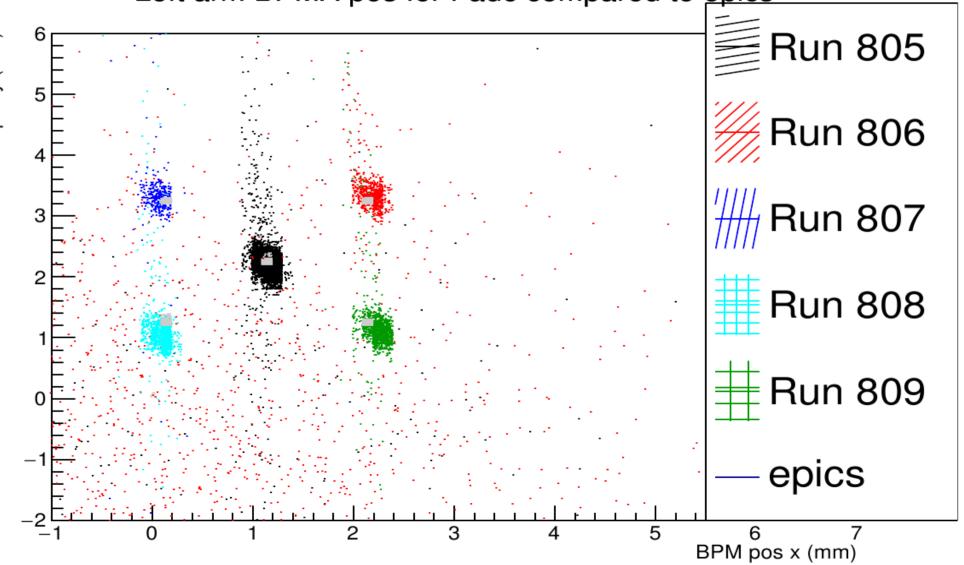


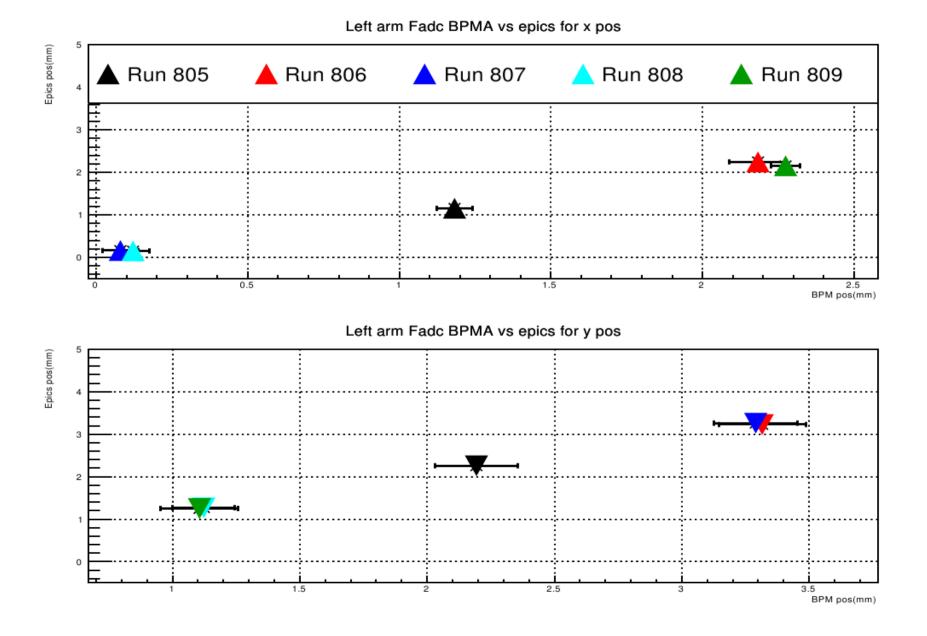
Left arm BPMB pos for Fbus compared to epics



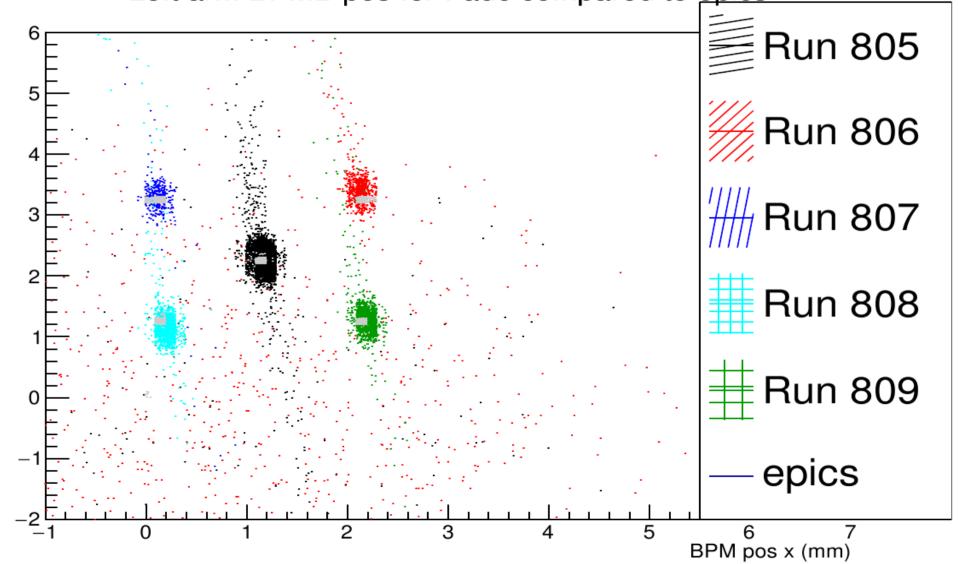


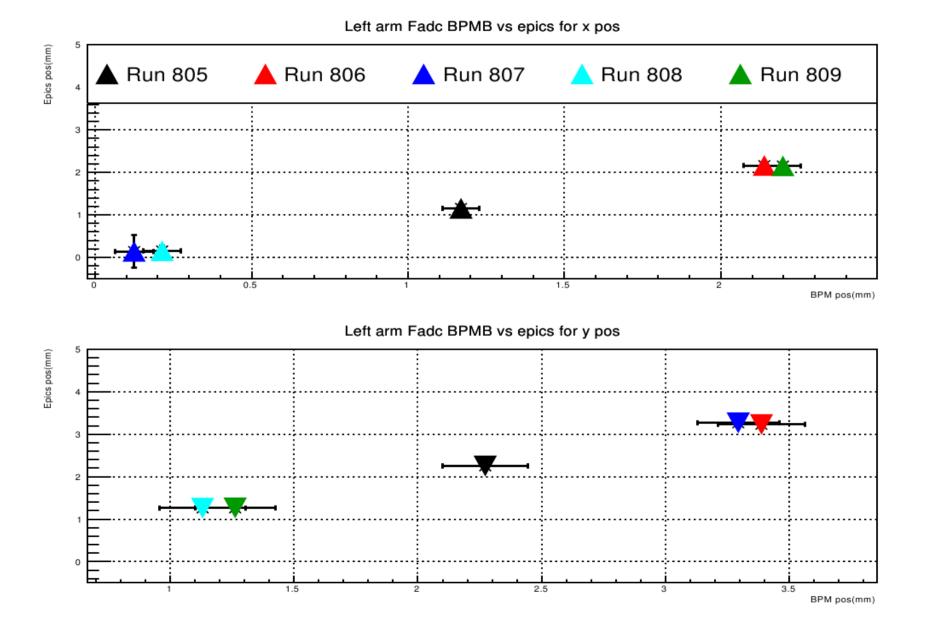
Left arm BPMA pos for Fadc compared to epics



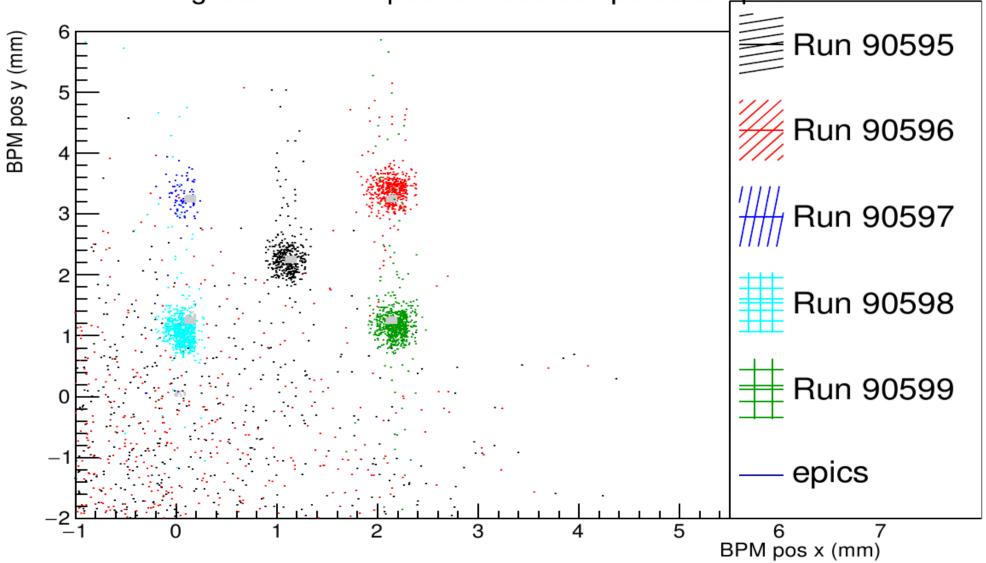


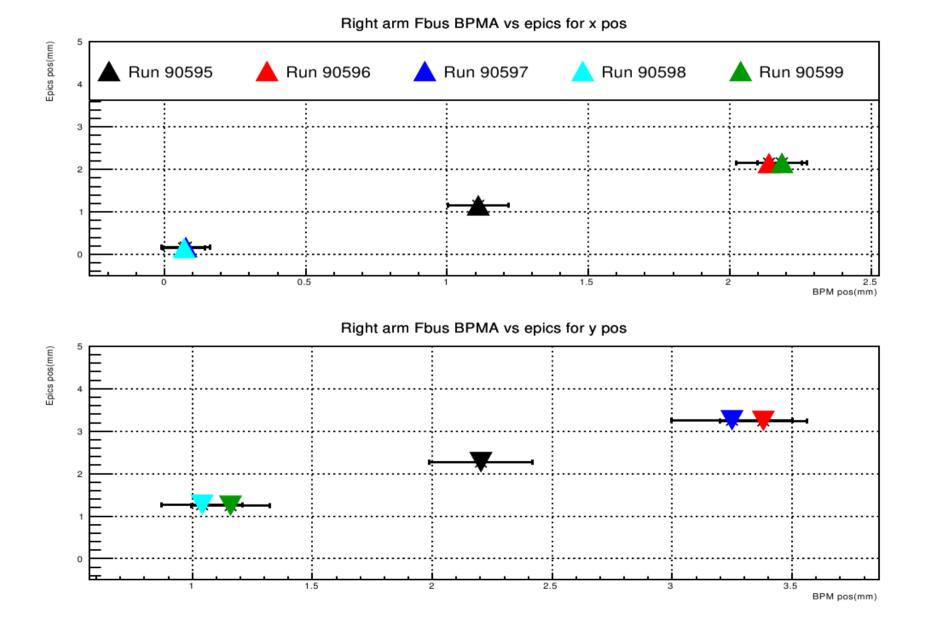
Left arm BPMB pos for Fadc compared to epics



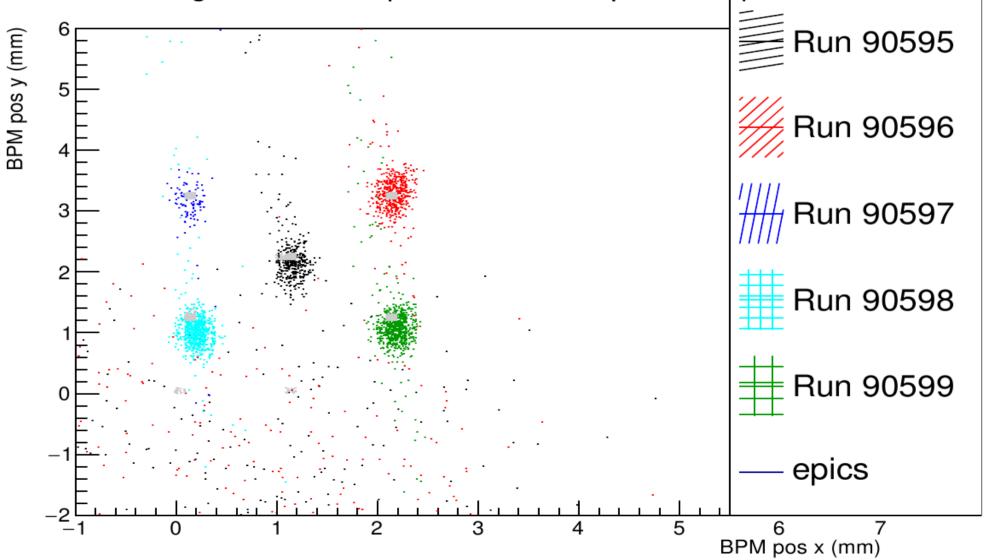


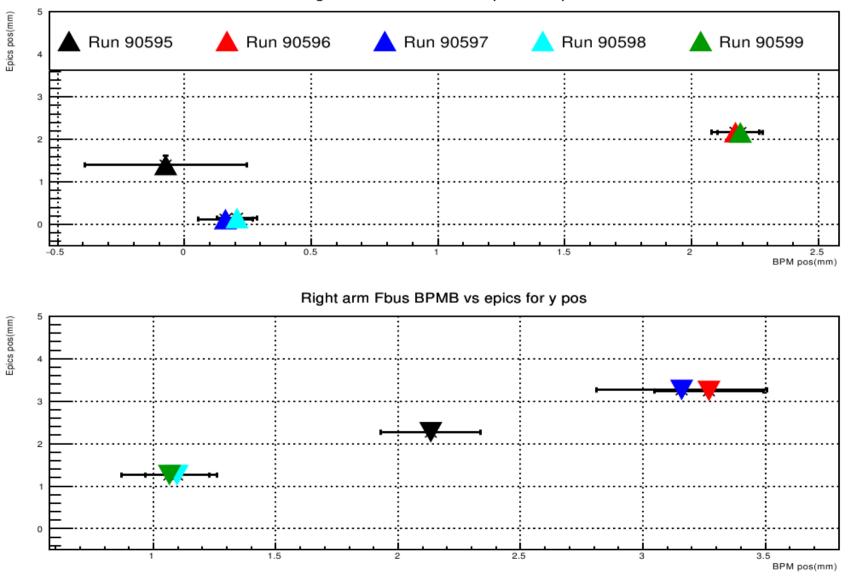
Right arm BPMA pos for Fbus compared to epics





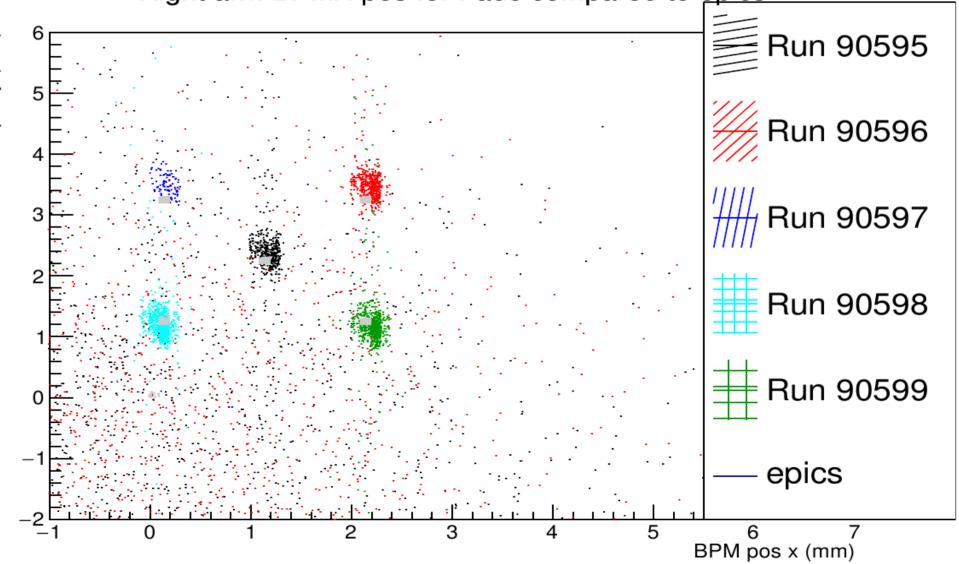
Right arm BPMB pos for Fbus compared to epics

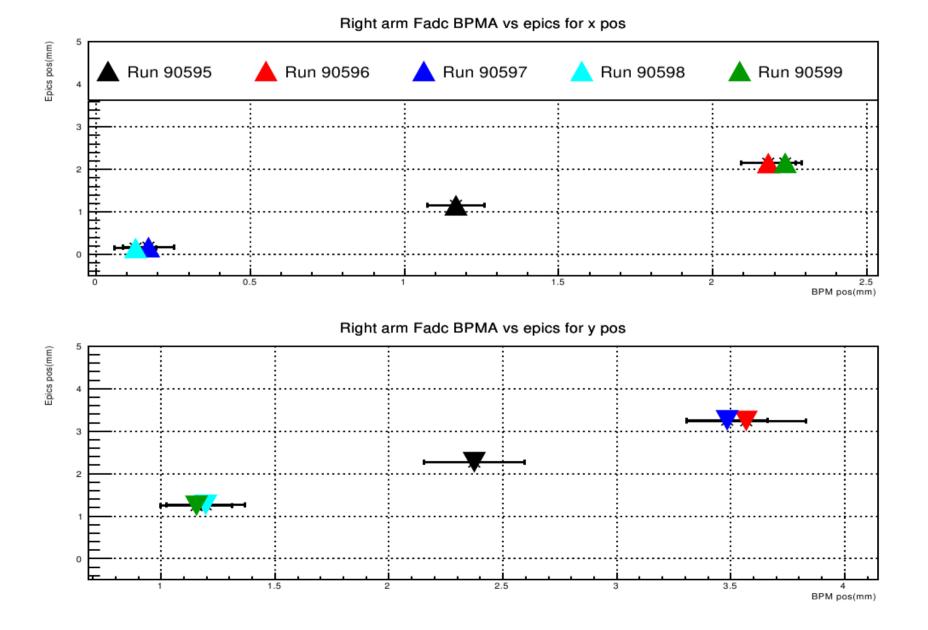




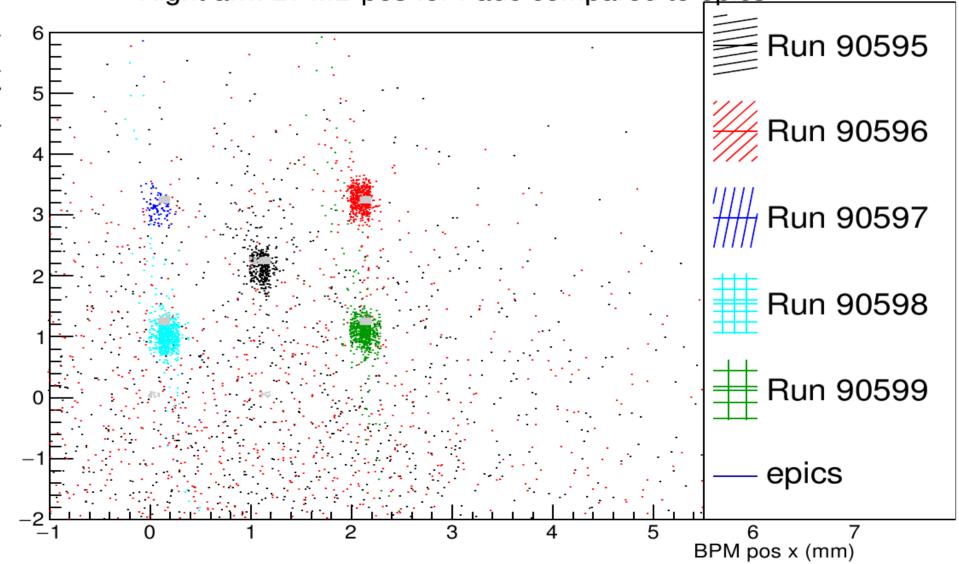
Right arm Fbus BPMB vs epics for x pos

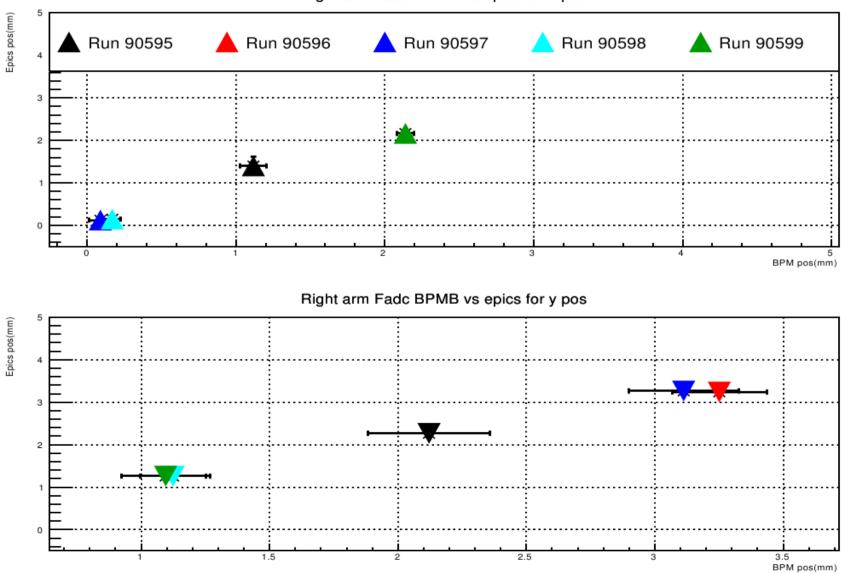
Right arm BPMA pos for Fadc compared to epics





Right arm BPMB pos for Fadc compared to epics





Right arm Fadc BPMB vs epics for x pos